

CLAIM AMENDMENTS

1. (Currently Amended) A seal for a roller bearing {2}, the seal comprising a sealing plate {24a, 24b} which is externally fixed to a rotating hub {9} enclosing the roller bearing {2} and which internally interacts with a rotationally fixed housing {5}, on which an inner bearing ring {3} of the roller bearing {2} is positioned, characterized in that wherein the sealing plate {24a, 24b} is fixed at least with a positive interlock to the hub {9}, a separate sealing medium being provided between the sealing plate {24a, 24b} and the hub {9}, and the sealing plate {24a, 24b} being internally tightly connected by means of an elastic seal {29} or an elastic medium {35} to the housing {5}, at least a bracing force of the elastic seal {29} being reduced as the rotational speed of the roller bearing increases.
2. (Currently Amended) A seal for a roller bearing, the seal comprising a sealing cap {19a, 19b} of cup-shaped design, which is assigned to a hub {9} externally enclosing the roller bearing {2} and which covers the front face of the roller bearing {2}, characterized in that wherein the sealing cap {19a, 19b} , at least in parts, has an externally axially projecting rim, the rim serving to fix the sealing cap is fixed both by positive interlock and by force-locking to the hub {9}, a separate elastic sealing medium being used in a fitting space {38} between the hub and the rim of the sealing cap on the front face of the roller bearing, an axial accommodation accommodation between the sealing cap {19a, 19b} and the hub {9}.

3. (Canceled)
4. (Currently Amended) The seal as claimed in claim 1 ~~which together with further comprising:~~ a first seal {17a, 17b} inserted directly between the inner bearing ring {3} and the outer bearing ring {8} of the roller bearing {2} ~~form forming~~ a two-stage seal.
5. (Currently Amended) The seal as claimed in claim 1 ~~characterized in that the sealing cap (19a, 19b) and wherein~~ the sealing plate {24a, 24b}, at least in parts, ~~have has~~ an externally axially projecting rim {20}, the ~~rim~~ serving to fix the sealing cap {19a, 19b} and the sealing plate {24a, 24b} to the hub by means of ~~force-10 locking force-locking~~.
6. (Currently Amended) The seal as claimed in claim 5, ~~characterized in that wherein~~ the rim {20} has at least one bead {40} facing radially inwards, which when fitted snaps positively into an associated annular groove {41} in the hub {20}.
7. (Currently Amended) The seal as claimed in claim 1, ~~characterized in that wherein the separate sealing medium is~~ an elastic seal {23a, 23b} ~~is provided~~ between the hub {9} and a radial flank {26} of the sealing plate {24a, 24b} ~~on the one hand or a rim (42) of the sealing cap (19a, 19b) on the other a second side of the roller bearing.~~
8. (Currently Amended) The seal as claimed in claim 7, ~~characterized in that wherein the elastic seal is~~ an O-ring or a circular rubber ring, ~~is inserted as seal (23a, 23b) between the hub (9) and the radial flank (26) of the sealing plate (24a, 24b) on the one hand or the rim (42) of the sealing cap (19a, 19b) on the other.~~

9. (Currently Amended) The seal as claimed in claim 7, characterized in that wherein the elastic seal (23a) is arranged in a fitting space (38) or accommodation for the sealing cap (19b) or the sealing plate (24b) defined radially outwards by the rim (20) and radially inwards by an axially projecting step (37).
10. (Currently Amended) The seal as claimed in claim 9, characterized in that when fitted wherein the elastic seal (23a, 23b) is supported on a circumferential spur (29) arranged on the rim side and projecting axially into the fitting space (38).
11. (Currently Amended) The seal as claimed in claim 1 characterized in that the sealing cap (19a, 19b) and, wherein the sealing plate (24a, 24b) are preferably made from a plastic material.
12. (Currently Amended) The seal as claimed in claim 1, characterized in that wherein with the sealing plate (24a) fitted to the hub, the elastic seal (29) is supported by an axially aligned seal lip (30) on a cylindrical section (27) of the housing (5), forming a seal.
13. (Currently Amended) The seal as claimed in claim 12, characterized in that wherein the seal lip (30) of the elastic seal (29) at the end has an outward facing bead (31), which is arranged so that a centrifugal force acting at the center of mass of the bead (31) gives rise to a component force acting clockwise or counterclockwise, depending on the fitted position of the seal lip (30), and reducing the bracing force of the seal lip (30).

14. (Currently Amended) The seal as claimed in claim 13, characterized in that when fitted wherein the seal lip (30) of the elastic seal (29) engages in an axial annular groove (32) of the housing (5), a radial outer wall (33) of the annular groove (32) limiting a displacement of the seal lip (30) due to the centrifugal force.

15. (Currently Amended) The seal as claimed in claim 13, characterized in that wherein the elastic seal (29) joined to the elastic seal lip is molded onto a radially inward facing flank (26) of the sealing plate (24a, 24b) or is snapped on onto the flank forming a positive interlock.

16. (Currently Amended) The seal as claimed in claim 1, characterized in that wherein the sealing plate (24b) with the comprises a radially inward facing flank (26) is guided up to proximately about a cylindrical section (27) of the housing (5) whilst maintaining and sized to maintain an annular gap (28) between the flank and the cylindrical section, the gap being filled by an elastic medium (35).

17. (Currently Amended) The seal as claimed in claim 1, characterized in that the wherein the sealing plate comprises a radially inward facing flank (26) of the sealing plate (24b) is at the end bent off at right angles having an outward end and an inward end, the inward end being bent at a right-angle and forms forming an axially projecting rim (34), which when fitted engages with some free play in an annular groove (32) in the housing (5).

18. (Currently Amended) The seal as claimed in claim 17, characterized in that wherein the axially projecting, cylindrical rim {34} of the sealing plate {24b} engages in the annular groove {32} filled with a lubricant or an elastic medium {35}.
19. (Currently Amended) The seal as claimed in claim 18, characterized in that wherein the elastic medium {35} in conjunction with the rim {34} of the sealing plate {24b} forms a seal labyrinth {36}.
20. (Currently Amended) The seal as claimed in claim 17, characterized in that wherein the rim {34} of the sealing plate {24b} is internally of cylindrical design shape and externally of conical design shape.
21. (Currently Amended) The seal as claimed in claim 16 characterized in that wherein a lubricant KE 2/3 K conforming to DIN 51 502 is preferably introduced into the annular gap {28} or the annular groove {32} as elastic medium {35}.
22. (New) The seal as claimed in claim 2 further comprising: a first seal inserted directly between the inner bearing ring and the outer bearing ring of the roller bearing forming a two-stage seal.
23. (New) The seal as claimed in claim 2, wherein the rim has at least one bead fading radially inwards, which when fitted snaps positively into an associated annular groove in the hub.
24. (New) The seal as claimed in claim 2, wherein the separate elastic sealing medium is an O-ring or a circular rubber ring.

25. (New) The seal as claimed in claim 2, wherein the separate elastic sealing medium is arranged in a fitting space or accommodation for the sealing cap defined radially outwards by the rim and radially inwards by an axially projecting step.
26. (New) The seal as claimed in claim 25, wherein the separate elastic sealing medium is supported on a circumferential spur arranged on the rim side and projecting axially into the fitting space.
27. (New) The seal as claimed in claim 2, wherein the sealing cap is made from a plastic material.